

**PESTICIDE CONTAMINATION PREVENTION ACT  
ANNUAL REPORT TO THE LEGISLATURE  
STATE WATER RESOURCES CONTROL BOARD  
November 2005**

Actions taken by the State Water Resources Control Board (State Water Board) and the Regional Water Quality Control Boards (Regional Water Boards) to prevent pesticides from migrating to groundwaters of the State are as follows:

**A. State Water Board**

State Water Board staff participated in the following activities:

- Regularly attended meetings sponsored by the Department of Pesticide Regulation (DPR), including the interagency Pesticide Registration and Evaluation Committee (PREC) and Pest Management Advisory Committee (PMAC).
- Participated in ongoing consultations with DPR staff, University of California (UC) scientists, and pesticide manufacturers to design monitoring studies and Best Management Practices (BMPs).
- Participated in discussions with U.S. Geological Survey (USGS) scientists on studies dealing with pesticides and water quality.
- Reviewed, on an ongoing basis, DPR Notices of "Materials Entering Evaluation" and advised DPR on potential water quality impacts of pesticide registration and use decisions.
- Reviewed and commented on DPR's proposed studies on pesticide and water quality pursuant to the Management Agency Agreement (MAA) with DPR.
- In coordination with the USGS and Lawrence Livermore National Laboratory (LLNL), the State Water Board is implementing the Groundwater Ambient Monitoring and Assessment Program (GAMA). The GAMA Program has sampled over 550 public water supply wells for various chemicals and contaminants, including pesticides, herbicides and their degradates. The water quality results for the San Diego GAMA Study Unit are summarized in Table 12.

**B. Regional Water Boards**

Actions taken by the Regional Water Boards are identified in Tables 1 – 11.

Table 1. Actions taken by the Regional Water Quality Control Board, North Coast (Region 1), in FY 2004-2005. Region 1 did not generate any new pesticide data this year from any discharger.

COUNTY	SITE	PESTICIDE	PREVENTION ACTION
<b>Humboldt</b>	U.S. Forest Service Nursery, McKinleyville	Chlorothalonil	USFS monitoring and assessment to prevent discharges to surface water and ground water with RWQCB support.
	Sierra Pacific, Arcata	Pentachlorophenol, Tetrachlorophenol,	Ongoing contamination assessment and cleanup.
	Carlotta Lumber Company	Pentachlorophenol, Tetrachlorophenol	Ongoing contamination assessment and cleanup.
	Beaver Lumber Company, Arcata	Pentachlorophenol, Tetrachlorophenol	Ongoing contamination assessment and cleanup.
	Sun Valley Bulb Farms	Chlorothalonil, Dithiocarbamate	Ongoing monitoring and assessment to prevent discharges to surface water and ground water under RWQCB direction.
	Pacific Lumber Co., Carlotta	Pentachlorophenol, Tetrachlorophenol	Ongoing contamination assessment to prevent discharges to surface water
	Schmidbauer, Arcata	Pentachlorophenol, Tetrachlorophenol	Ongoing contamination assessment and cleanup.
	Schmidbauer, Eureka	Pentachlorophenol, Tetrachlorophenol	Ongoing contamination assessment and cleanup.
	Simpson Plywood Mill (Old), Eureka	Pentachlorophenol, Tetrachlorophenol	Ongoing contamination assessment and cleanup.
	Simpson Mill, Samoa	Pentachlorophenol, Tetrachlorophenol	Ongoing contamination assessment and cleanup.
<b>Siskiyou</b>	Hi-Ridge Lumber Company	Pentachlorophenol, Tetrachlorophenol	Ongoing contamination assessment and cleanup.
	Pine Mountain Lumber Company	Pentachlorophenol, Tetrachlorophenol	Ongoing contamination assessment and cleanup.
	Morgan Door, Roseburg	Pentachlorophenol, Tetrachlorophenol	Ongoing contamination assessment and cleanup.
	J.H. Baxter	Pentachlorophenol, Tetrachlorophenol	Ongoing contamination assessment and cleanup.

Table 2. Actions taken by the Regional Water Quality Control Board, San Francisco Bay (Region 2), in FY 2004-2005. Region 2 did not generate any new pesticide data this year from any discharger.

COUNTY	SITE	PESTICIDE	PREVENTION ACTION
Alameda	Jones-Hamilton	Pentachlorophenol	RWQCB Order No. 89-110 specified time schedule for investigation/cleanup. Ground water cleanup underway. No sampling of ground water for pesticides.
	Port of Oakland (Embarcadero Cove)	Chlordane, Pentachlorophenol, DDT, Endosulfan, 2,3,7,8-TCDD, DDD	Department of Toxic Substances Control (DTSC) has lead and has approved a Remedial Action Plan including continuous ground water monitoring.
	Peerless Southern Pacific Railroad	Pentachlorophenol	City of Berkeley Health Department has lead. Additional soil and ground water investigations required.
	FMC, Newark	EDB	RWQCB Order No. 89-055 specified time schedule for investigation and cleanup. Ground water cleanup underway.
Contra Costa	Chevron	Endrin, Lindane, Dieldrin, DDT, Arsenic	Submitted closure plan for Class I impoundment. A cut-off wall with a ground water extraction trench around the impoundment has been constructed.
	Levin Metals	Aldrin, 4,4'-DDD, 4,4'-DDE, o,p,-DDT, Dieldrin, BHC	U.S. Environmental Protection Agency (U.S. EPA) lead on-site cleanup. Awaiting report of completion for remedial dredging project.
	FMC, Richmond	DDT, DDD, DDE, Dieldrin, Chlordane, Tedion, Endosulfan, Ethion, Carbophenothion, Heptachlor	California Department of Health Services (DHS) lead on-site cleanup. Cleanup completed. Monitor to assure remaining pollutants do not migrate.
Marin	Former Sonoma Mosquito Abatement District, San Rafael	DDD, DDE, DDT, Dieldrin	DTSC is lead agency. Some soil removal has already taken place (approximately 3000 yd <sup>3</sup> in 1992). Old monitoring wells destroyed. Seven new wells were installed in 1996. DTSC has mailed out draft deed restriction and draft O&M Agreement for site.
Solano	Travis Air Force Base	Aldrin, Heptachlor, Alpha-Chlordane, Heptachlor Epoxide	U.S. EPA leads site cleanup. Groundwater extraction, treatment and monitoring has been ongoing since 2001.

Table 3. Actions taken by the Regional Water Quality Control Board, Central Coast (Region 3), in FY 2004-2005

COUNTY	SITE	PESTICIDE	PREVENTION ACTION
Monterey	Monterey SoilService, King City	EDB and DBCP	Monitored natural attenuation is used at the site for low-level residual concentrations of EDB and DBCP in groundwater.
	Castlerock Estates, Salinas	Toxaphene	Well Destruction Report received and case closed.
Santa Clara	Castle-Veg-Tech, Morgan Hill	Toxaphene, Endrin, Lindane, Endosulfan	Groundwater monitoring was resumed in 2 <sup>nd</sup> quarter 2005. The Water Board approved a soil sampling work plan in October 2005 in order for the Responsible Parties to propose cleanup action.
Santa Cruz	WFS-Greengro, Watsonville	1,2-DCP	Monitored natural attenuation is used for low level residual 1,2-DCP in groundwater.
	WFS, Watsonville	DDT, DDD, Toxaphene	Well Destruction Report received and case closed.

Table 4. Actions taken by the Regional Water Quality Control Board, Los Angeles (Region 4), in FY 2004-2005

COUNTY	SITE	PESTICIDE	PREVENTION ACTION
No pesticides were detected at any landfill in the Los Angeles Region that is required to submit ground water monitoring reports to the Regional Board.			

Table 5. Actions taken by the Regional Water Quality Control Board, Central Valley (Region 5, Sacramento), in FY 2004-2005.

COUNTY	SITE	PESTICIDE	PREVENTION ACTION
Colusa	Moore Aviation	Atrazine	Plume contracted to less than 100 square feet. Soils have been remediated.
Glenn	Former Barber Cashew Supply Corporation, Willows	Nitrate, ammonia, 1,2-DCE, PCE, TCE, toluene, carbon tetrachloride, chloroform, chlorobenzene	New property owner is remediating nitrate and ammonium in soils with bioremediation and proposing to evaluate groundwater for other constituents.
Merced	Merced Municipal Airport	Alachlor, Captan, Carbophenothion (trithion), DDT (total) Dicofol (Kethane), Dieldrin, Endosulfan I, II, Endosulfan sulfate, Endrin, Endrin aldehyde, Endrin ketone, Heptachlor epoxide, Methoxychlor, Toxaphene,	Health Assessment completed. Feasibility study submitted.
	J.R. Simplot, Winton	1,2-DCP, 1,2,3-TCP, DBCP, nitrate	Organo-chlorine contaminated soil removed, soil vapor extraction removed some volatile compounds, and sugar injection is underway to remediate nitrate in groundwater.
	Western Farm Service, Merced	1,2-DCP, DBCP, dinoseb, dalapon, nitrate, ammonia	Organochlorine contaminated soils were removed. A pilot study for in-situ remediation of groundwater using Hydrogen Releasing Compound (HRC) is being evaluated. HRC is being tested for nitrate removal in soil.
Sacramento	Sacramento Army Depot	Diazinon, Dursban	Assessment report requested. Federal Superfund work in progress. Cleanup of pesticides completed.
	Natomas Air Park	Dicofol, DDE, DDT, Endosulfan, Toxaphene, Dieldrin Endrin	Some contaminated soils were excavated and disposed of off-site. Groundwater investigation is underway
	Western Farm Service, Walnut Grove	Nitrate, ammonia, aldrin, beta-BHC, gamma-BHC, DDD, DDE, dieldrin, heptachlor epoxide, endosulfan, disultoton, TPH-diesel	Investigation continuing. Regional Board is lead agency.
San Joaquin	Occidental Chemical, Lathrop	EDB, DBCP, Sulfolane	Groundwater cleanup underway pursuant to stipulation and judgement approving settlement (1981). Currently reviewing remedial system optimization workplan and monitoring and reporting program.
	Continental Grain Company	Carbon Tetrachloride, chloroform, 1,2-DCP, 1,2-DCA, tetrachloroethane	A pilot study evaluating zero-valent iron for in-situ treatment of groundwater is underway.
	John Taylor Fertilizers, Stockton	Dinoseb, 1,2,3-TCP, 1,2-DCP, bromacil	Soil investigation did not identify on-site source areas. Investigation underway
	Defense Depot, Tracy	Dieldrin, Simazine	A Record of Decision (ROD) was finalized in February 1998; it includes soil cleanup levels for simazine and dieldrin, and a ground water cleanup level for dieldrin. Pump and treat has been implemented for main dieldrin plume. Currently, investigating small dieldrin plume in NW corner of Depot that may also require remedial actions.

COUNTY	SITE	PESTICIDE	PREVENTION ACTION
San Joaquin	Sharpe Army Depot, Stockton	Bromacil	Limited monitoring continues. Remedial actions may not be warranted.
	U.S. Navy Computer and telecommunications Station, San Diego Detachment	DDD, DDE	Assessment ongoing. Soil removal actions have occurred and more are planned. Groundwater assessment underway.
	Western Farm Service, Stockton (former Pure Gro/Brea)	1,2-DCP, Chloroform, PCE, Bromoform, 1,1-DCA, Dibromochloromethane, bromochloromethane, bromodichloromethane	Some soil was removed; two source soil areas are capped. Semi-annual groundwater monitoring and long-term cap maintenance is continuing. Health risk assessment is complete. A pilot study evaluating zero-valent iron for in-situ groundwater treatment is being considered. .
	Former Oxychem/ Simplot/ PureGro, Stockton	DBCP, 1,2-DCP, 1,1-DCE, 1,2-DCA, Chlorobenzene, 1,1,2-TCA, Mevinphos, Fensulfothion, Dinoseb, Dicamba, 2,4,5-T, Atrazine, Monuron, Carbaryl, Carbofuran, Propham, Diuron, Propoxur, 1,1,2,2-TCA, atraton, 2,4-DB, bromacil, chloromethane, tebuthiuron, simazine, methiocarb, MCPP, fenuron, chloroform, chloroxuron, dichloroprop, EDB, oxamyl	Primary soil source area remediated with thermal destruction. Phytoremediation in progress to treat trace constituents in soil and nitrate in groundwater
	Cal Farm Supply	b-BHC, nitrate	Soils were remediated. Nitrate uptake by safflower cropping ongoing.
	Western Farm Service, Vernalis	DBCP, EDB, diuron, methiocarb, diazinon, aldrin, nitrate, ammonia, 1,2-DCP	Pilot project using hydrogen release compound for in-situ remediation underway.
Solano	John Taylor Fertilizer, Dixon	DDT, tebuthiuron	Investigation underway
	TSI, Dixon	DDT, DDE, 1,2-DCP, nitrate, ammonium	Some contaminated soil was removed. Crop uptake is remediating nitrate and ammonium off-site. Investigation underway.
Stanislaus	Chemurgic Agricultural Chemicals	BHC	Excavation of areas with elevated BHC in soil completed by December 1995. Ground water remediation and monitoring ongoing.
	Geer Road Landfill	1,1-DCA, 1,1,1-TCA, TCE, Chloridazon, Freons	Ground water cleanup underway.
	Western Farm Service, Modesto	DBCP, EDB, nitrate, ammonia	Remedial work to excavate areas with elevated pollutant concentrations in soil followed by placing an engineered cap over a majority of the site are underway.
	Shell Agricultural Research Facility	Cyanazine, Atrazine, Chloroform, DBCP, Nitrate	Groundwater being treated with carbon absorption for organic compounds, followed by phytoremediation for nitrate. Soil has been remediated.
Sutter	Bowles Flying Service	2,4-D, Thiobencarb, Diuron, Metalaxyl, Molinate, Simazine	Cease and Desist Order issued under the TPCA program. On DTSC's list as needing a Preliminary Endangerment Assessment. Monitoring wells installed.

COUNTY	SITE	PESTICIDE	PREVENTION ACTION
	PureGro, Robbins	alachlor, aldrin, dicofol, monuron, 1,2-DCA, 1,2-DCP, diphenamid	MRP issued for quarterly ground water monitoring. Additional ground water characterization requested.
	John Taylor Fertilizers, Yuba City	1,2-DCP, 1,2,3-TCP, 1,2-DCB, chlorobenzene, DBCP	Soil excavation completed, in-situ groundwater remediation using hydrogen-releasing compound is underway.
Yolo	Frontier Fertilizer Company, Davis	EDB, DCP, DBCP, Carbon tetrachloride	DTSC installed interim ground water treatment system. U.S. EPA expanded the system and is conducting an investigation to determine extent of plume. Treatability studies to evaluate treatment alternatives are underway.
	U.C. Davis, Pesticide applicator site	Chlorpyrifos, Dicamba, Atrazine, Aldrin, Simazine, Dieldrin, Endrin, DDT	Contaminated soil removed, groundwater being extracted and discharged under permit to sanitary sewer.
	J.R. Simplot, Courtland	EDB, 2,4-DB, Dicofol, Dicamba, 2,4,5-TP, Carbophenthion, DDT, Dieldrin, Dinoseb, Picloram	Phytoremediation underway for soil & groundwater remediation.

Table 6. Actions taken by the Regional Water Quality Control Board, Central Valley (Region 5, Fresno), in FY 2004-2005

COUNTY	SITE	PESTICIDE	PREVENTION ACTION
Fresno	Blue Hills Disposal Site, County of Fresno	Dicamba, 2,4-D, Silvex	DTSC lead. Corrective action underway.
	Thompson Hayward Agriculture & Nutrition	Alpha-BHC, Beta-BHC, Gamma-BHC, Dieldrin, DBCP, Diphenamid, Heptachlor, Heptachlor Epoxide	State Superfund site (DTSC lead). Implementation of the Remedial Action Plan. On going Operation, Maintenance, and Monitoring Plan and Agreement development. Finalized Preliminary Close-out report by DTSC. Submittal of Draft Remedial Action Completion Report by DTSC to EPA. Continued evaluation of domestic well connection status and alternative water supply options.
	J.R. Simplot, Helm Facility	Dieldrin	Long-term groundwater monitoring.
	FMC Corporation, Fresno Facility	1,2,3-TCP, Aldrin, Dieldrin, DDT, DDD, DDE, Heptachlor, Lindane, Toxaphene, Ethyl Parathion, Malathion, Ethion, Endosulfan, Dimethoate, Furadan, Dinitrocresol, Dinoseb (DNBP)	DTSC lead. Discharge area capped and undergoing remediation, using SVE. 1,2,3-TCP in groundwater is driving new off-site extraction well installation, expanding the original two-well extraction system. Groundwater pilot test results show enhanced reductive dechlorination is cost prohibitive – will continue using SVE and pump & treat as primary plume control tool.
	Britz, Inc., Five Points	Toxaphene, DDT, DNBP	State Superfund site (DTSC lead). Investigation and health assessment report submitted. Groundwater remediation feasibility study submitted. Additional contamination assessment completed. Deed restriction in place.
	Fresno County Wells	DBCP, EDB, 1,2-D	Pesticides detected in 146 wells (AB 1803 sampling).
	Coalinga Airport	DDT, DDE, Ethion, Toxaphene, 2,4-D, Dinoseb, Malathion, Parathion, Merphos	Pesticides found in soil. Additional assessment proposed and work plan approved.
	Spain Air	Ethion, DEF, Parathion, Trithion, Dinoseb, Paraquat, DDE, DDT, Endosulfan II	Assessment needed.
	PureGro, Oxalis	1,2-Dichloropropane, nitrate	Soil and groundwater plume definition 95% complete. Detailed soil vapor (SV) survey and supplemental soil sampling at western pond completed. Workplan for soil remediation at western pond to be finalized after additional deep soil sampling.
	Eagle Field (FUDS)	2,4-D, Pentachlorophenol,	Pesticides detected from groundwater grab samples. Additional assessment is needed.
	Broadview Water District – Bullard Avenue Air Strip	DDT Toxaphene	Pesticides detected from groundwater grab samples. Assessment in progress.
	Baptiste Property	DDT Toxaphene	Pesticides detected in soil samples. Assessment in progress.
	Mike Perez Property	DDT Toxaphene	Pesticides detected from groundwater grab samples. Assessment in progress.

COUNTY	SITE	PESTICIDE	PREVENTION ACTION
<b>Kern</b>	Brown & Bryant, Inc., Arvin	1,2-D, 1,3-D, DBCP, Dinoseb, EDB, carbaryl	Federal Superfund site (DTSC lead). U.S. EPA has prepared Remedial Information Feasibility Study Report.
	Brown and Bryant, Inc., Shafter	EDB, DBCP, Chlordane, DDD, DDE, DDT, Dieldrin, Endrin, Heptachlor, Toxaphene	State Superfund site (DTSC lead). The site has been conducting a supplemental risk assessment during 2005.
	Western Farm Service, Delano Facility	DDT, Toxaphene, Dinoseb, Dicamba	Assessment on-going, long-term monitoring on-going, impacted soils have been capped.
	Puregro Company, Bakersfield	DBCP, Toxaphene	DTSC lead. Further assessment conducted. Pilot study for reductive dechlorination of pesticides in soil conducted 2002-03. The RWQCB issued WDRs for closure of a former dry well in March 1994 and amended them in March 1996.
	Dick Garriott Crop Dusting, Bakersfield	Chlordane, DDE, DDT, PCNB, Endosulfan I & II, Methoxychlor, Carbofuran, Carbaryl, Bufencarb, DEF, Tedion, Diazinon, Chlorpyrifos, Ethyl Parathion, Diuron, Dinoseb, Dicamba	CAO issued in 1993. Hydrogeological Assessment Report completed in 1993. Work in progress to determine extent of groundwater degradation. Additional groundwater monitoring wells proposed to determine extent of degradation. Title 27 cap also proposed.
	USDA, Shafter	Dichlobenil, EPTC, Prometryne, DDT, DDE, DDD, Dieldrin, Toxaphene, Silvex, PCP, Chlorpropham, Ametryn, Atrazine	USEPA lead. Developing a closure plan. Soil remediation and dry well abandonment were requested in 1996 but have not been completed.
	Kern County Wells	DBCP, 1,2-D, EDB	Pesticides detected in 57 wells (AB 1803 sampling). No assessment underway.
<b>Kings</b>	Lemoore N.A.S.	Unspecified	Investigation ongoing.
	Blair Field	2,4-D, Dicofol, Diazinon, Propargite	Assessment needed.
	Blair Aviation	Trifluralin, Mevinphos, Phorate	Contamination assessment needed.
	Lakeland Dusters	DDT, Toxaphene	Contaminated soils excavated and stockpiled on site. Remediation underway.
<b>Madera</b>	Chowchilla Municipal Airport	Dieldrin, Alpha-BHC, Endosulfan, PCNB, DDT, DDE, Lindane	Contamination assessment needed.
	Madera Municipal Airport	DDT, DDE, Toxaphene, Dicofol, Endrin	Impacted soils have been capped. Long-term monitoring on going.
	Western Farm Service, Inc., Madera Facility	Dinoseb, DBCP, Dieldrin	Impoundment closed. Impacted soils have been capped. Long-term monitoring on going.
	Madera County Wells	DBCP	DBCP detected in two wells (AB 1803 sampling). No assessment underway.
<b>Tulare</b>	Mefford Field, City of Tulare	p,p'-DDT, p,p'-DDE, 2,4,5-TCP, Dicamba, DNBP, Diuron	Contamination assessment and mitigation reports needed.
	Tulare Airport	2,4-D, DNBP	Assessment needed.
	Kaweah Crop Dusters	DDT, 2,4-D, 2,4,5-T, Methoxychlor	DHS Remedial Action Order issued January 1984. Cleanup ongoing.
	Tulare County Wells	1,2-D	Detected in wells through AB 1803 sampling. No assessment underway.

Table 7. Actions taken by the Regional Water Quality Control Board, Central Valley (Region 5, Redding), in FY 2004-2005.

<b>Butte</b>	L.P, Remanufacturing Facility, Chico	Pentachlorophenol Tetrachlorophenol	DTSC is lead agency. Waste Discharge Requirements adopted in 1996 for groundwater treatment and reinjection. Groundwater extraction and treatment ceased in Feb 03. Verification groundwater monitoring underway to determine effectiveness of natural attenuation. Deed restriction in place prohibiting groundwater use without DTSC approval.
<b>Tehama</b>	L.P, Sawmill, Red Bluff	Pentachlorophenol	Bioremediation of excavated soil stockpile and groundwater monitoring continues.
	L.P, VG Mill & Jamb, Red Bluff	Pentachlorophenol Tetrachlorophenol Stoddard Solvent	CAO Order 98-712. Soils cleaned up. Pilot project using ozone for in-situ groundwater remediation underway.

Table 8. Actions taken by the Regional Water Quality Control Board, Lahontan (Region 6), in FY 2004-2005.

COUNTY	SITE	PESTICIDE	PREVENTION ACTION
<b>El Dorado</b>	Tahoe Keys Lagoon and Marina	Endothall, Floridone, Triclopyr	The Tahoe Keys Property Owners Association (TKPOA) proposed to use these aquatic pesticides for the control of Eurasian watermilfoil in the lagoon and marina. In February 2002, the Regional Board issued a notice excluding the TKPOA from coverage under the statewide Aquatic Pesticides General NPDES Permit. A scientist from the USDA Agricultural Research Service at UC Davis submitted a formal proposal in May 2003 and requested that the Regional Board consider modifying or withdrawing the Notice of Exclusion to allow pilot-scale experimental application of aquatic herbicides. The Regional Board considered but denied the request in June 2003.
<b>Inyo</b>	Amargosa River at Upper Canyon	Triclopyr	In March 2004, two surface water samples collected from the Amargosa River and analyzed as part of the Region's ambient water quality monitoring program showed triclopyr at concentrations of 0.06 and 0.07 µg/L. Additional sampling was completed in 2005 but analysis is not yet complete. If triclopyr is again detected, Regional Board staff will investigate possible sources.
<b>San Bernardino</b>	George Air force Base	Dieldrin	A number of groundwater wells (6) in the vicinity of the Westwinds Golf Course test positive with low levels of dieldrin. At least 4 wells are above the CA State Action Level for dieldrin. The Air Force is conducting a PS/SI, including surface soil sampling to evaluate potential sources and new groundwater monitoring wells. Additional site assessment is pending Air Force funding that has been requested. This site is adjacent to large municipal supply wells for the City of Adelanto. Those wells have been tested and do not have dieldrin. Board staff has not concurred with parcel transfer of sites with dieldrin.
<b>All counties in Region 6 (includes all or parts of Modoc, Lassen, Plumas, Sierra, Nevada, Placer, El Dorado, Alpine, Mono, Inyo, San Bernardino, Kern, Los Angeles Counties)</b>	Region wide	Herbicides	To qualify for the waiver under the Timber Harvest Activities Waiver Policy (adopted in January 2003), applicants must notify the Regional Board at least 90 days in advance of any proposed herbicide application, and provide specific information about the proposed herbicide use. They must also adhere to any monitoring program prescribed by the Executive Officer.

Table 9. Actions taken by the Regional Water Quality Control Board, Colorado River Basin (Region 7), in FY 2004-2005. No changes to Region 7 sites since FY 2003-2004.

COUNTY	SITE	PESTICIDE	PREVENTION ACTION
<b>Imperial</b>	Central Brave Agricultural Service	4,4'-DDE, Endosulfan	Recalcitrant Discharger. Referred to Attorney General for nonpayment of fees.
	J.R. Simplot Company, Sandin Siding Facility	Dieldrin, 4,4'-DDT, Endrin	CAO issued. Site in remediation. Risk base corrective action in-progress (site closed in 2001)
<b>Riverside</b>	West Coast Flying	Endosulfan I & II, Disulfoton	Recalcitrant discharger. Referred to Attorney General for nonpayment of fees.
	Woten Aviation Services	Disyston, DEF, Ethyl Parathion, Methyl Parathion	CAO issued. U.S. EPA has lead in cleanup.
	Foster Gardner, Inc., Coachella Facility	1,2-Dichloroethane, 1,2-D, Ethylene Dibromide	CAO issued October 1991 by RWQCB. Imminent and Substantial Endangerment Order issued by DTSC on August 21, 1992. Cleanup on going.
	Coachella Valley Mosquito Abatement District	DDT	Under investigation. Pesticide contamination insignificant, UST Cleanup only. (site closed in 2001)
	Crop Production Services, Blythe (Formerly Pure Gro MW-24)	1,2-Dichloropropane	Undergoing cleanup.

Table 10. Actions taken by the Regional Water Quality Control Board, Santa Ana (Region 8), in FY 2004-2005.

COUNTY	SITE	PESTICIDE	PREVENTION ACTION
Orange	Great Lakes Chemical Corporation (formerly Great Western Savings), Irvine	1,2-D, EDB, 1,2-DCE	On-site full-scale multi-phase vacuum extraction system is continuing. GLCC now discharges to County Sanitation District of Orange County under Special Purpose Discharge Permit as of 12/2001. GLCC was issued a CAO by RWQCB on 4/17/97 for off-site remediation of impacted groundwater. GLCC is operating an on-and off-site groundwater extraction and treatment system. The full treatment system has been operating continuously since December 2001. Waste Discharge Requirements (Order No. 0025) was rescinded in April 2002. Treated groundwater is discharged to sewer line.
	Sunnymead Mutual Water Company (North and South Well)	DBCP	Both wells were sold to Eastern Municipal Water District in February 1991. Customers are being served by the new District from other supply sources. North Well has been completely rehabilitated. South Well will be used for emergency purposes only.
Riverside	Arlington Basin	DBCP	Construction of a 7-MGD reverse osmosis plant with partial flow through a GAC unit for treatment of TDS, NO <sub>3</sub> and DBCP was completed in September 1990. About 1.0 MGD of groundwater is treated and 0.5 MGD is bypassed. Treated water is mixed with the bypassed water and discharged to the Arlington Channel for ground water recharge purposes by the Orange County Water District. Salt brine (0.2 MGD) is discharged to the Santa Ana Regional Interceptor, which discharges to the ocean via the Orange County Sanitation District. A second parallel transmission line has been completed to bring extracted groundwater from three wells to the reverse osmosis unit. Sale of this water to Cities of Norco and Jurupa Community Services District.
	City of Corona (Well 8, mun.)	Simazine	Well has been completely rehabilitated. Simazine was not detected in the sampling after rehabilitation work. No further action being taken. Trace of TCE has been detected in recent sampling. No further action being taken.
	Home Gardens County Water District (Wells 2 & 3, mun.)	DBCP, Simazine	Water purveyor has closed these wells and is now purchasing water from the City of Riverside.
	City of Riverside, Twin Spring, mun.	DBCP	Well is out of service
	City of Corona (Well 17, mun.)	Simazine, DBCP	Well has been abandoned. A new well (17A) has been drilled and is in use. Trace of DBCP was detected in March 1991 sampling. Trace of TCE has been detected in recent sampling of the new well.
	City of Riverside (Russell "B", mun.)	Simazine, DBCP	Well has been abandoned and replaced with a new well. (Russell "C")
	City of Riverside (Garner "B", mun.)	DBCP	A 3,200 gpm GAC treatment system has been installed (Garner B Treatment Plant)
	City of Riverside (Russell "C", mun)	DBCP	A 3,200 gpm GAC treatment system has been installed (Garner B Treatment Plant)
	City of Riverside (1st Street)	DBCP	Well is not being used due to high concentrations of DBCP. No mitigation measures in effect.

COUNTY	SITE	PESTICIDE	PREVENTION ACTION
Riverside	City of Riverside (Electric Street, mun.)	DBCP	A 9,000 gpm GAC treatment system has been installed (Palmyrita Treatment Plant)
	City of Riverside (Palmyrita, mun.)	DBCP	A 9,000 gpm GAC treatment system has been installed (Palmyrita Treatment Plant)
	City of Riverside (3 wells, mun.)	DBCP	Water from Hunt Wells No. 6, 10, and 11 is being blended with other wells in the area.
	City of Riverside (3 wells, emergency, Downtown Riverside)	DBCP	No mitigation measures in effect. These three wells are also contaminated with industrial organic solvents.
	Riverside County Hall Of Records, (pr)	DBCP	No mitigation measures in effect. Volatile organic chemicals such as TCE and PCE have also been found. Well is used for emergency purposes only.
	Loma Linda University, Arlington, (Wells 1 & 2, mun.)	DBCP	The University water supply system is tied into the City of Riverside domestic water supply distribution system. These two wells are used for irrigation purposes at the school.
	City of Riverside (Moor-Griffith, mun.)	DBCP	A 9,000 gpm GAC treatment system has been installed (Palmyrita Treatment Plant)
	Lake Hemet MWD (Wells A and B, mun.)	DBCP	The District is using well "A" for irrigation purposes. Well "B" is being used by a local farmer for irrigation purposes.
	San Bernardino	Victoria Farms MWC (Well 01 & 03, mun.)	DBCP
Gage System Wells (16 wells, mun.)		DBCP	The City of Riverside and the Gage Canal Company operate the Gage System, which consists of fifteen wells located along the Santa Ana River. These wells are being blended for domestic use. Trace amounts of radon have been detected in some of these wells. The City installed three deep wells in the area to increase blending capacity. Two GAC treatment systems (total of six wells) have been in operation since February 2000 for removal of VOCs and DBCP. Additional GAC system has been designed for treatment of groundwater (total of three wells). These units are located at the leading edge of an existing TCE plume.
Bunker Hill Basin: Crafton/Redlands area (36 wells)		DBCP	The City of Redlands started construction of an 8.5-MGD granular activated carbon (GAC) treatment system in September 1991. This GAC system treats groundwater from two wells. Treated water is being put into the local water supply distribution system. Funding for this system is from the STATE WATER BOARD (\$2.8 million) and bond money through the State Expenditure Plan (\$1.9 million) that is managed by DTSC. The system has been off line since July 1997 due to presence of perchlorate above Action Level in both production wells. The Department of Health Services is reviewing effectiveness of tailored carbon system for removal of VOCs and perchlorate. Lockheed Martin has provided \$3.7 million for the cleanup of groundwater supplies that the City has been conducting since 1985.

COUNTY	SITE	PESTICIDE	PREVENTION ACTION
	South San Bernardino Company Water District (4 wells, mun.)	DBCP	All four wells are out of service. The City of San Bernardino Water Department purchased the water district in July 1991. The City now supplies all the customers in the area.
	Cucamonga VWD (15 wells, mun.)	DBCP	Five wells are inactive. Ten wells are active and water is being blended with other supply wells. Water is being purchased from Metropolitan Water District (MWD).
	Monte Vista CWD (3 wells, mun.)	DBCP	One well has been abandoned. Two wells are active and water is being blended with other supply wells. Water is being purchased from MWD.
	City of Upland (13wells)	DBCP	Five wells have been abandoned. Four wells are currently on standby. Four wells are active and water is being blended with other supply wells.
	City of Loma Linda (6 wells, mun.)	DBCP	Two wells have been abandoned. One well is out of operation due to high nitrates. Four new deep wells have been on line since 2002.

Table 11. Actions taken by the Regional Water Quality Control Board, San Diego (Region 9), in FY 2004-2005.

COUNTY	SITE	PESTICIDE	PREVENTION ACTION
<b>San Diego</b>	City of Oceanside Water Utility District (Well No. 12-11S/ 4W-18L1 S)	1,2-DCP (1,2-Dicloropropane)	This backup drinking water well is located in the San Luis Rey River Valley. Up to 2.3 µg/L has been detected in this well. The City of Oceanside is continuing monitoring of this well and reports to the State's DHS.
	San Diego Naval Station	<b>GW1-3</b> - 4,4'-DDT=0.019 ug/l; Endrin=0.015 ug/l; Methoxychlor=0.032 ug/l <b>GW1-4</b> - 4,4'-DDT=0.012 ug/l; Endrin=0.017 ug/l; Methoxychlor=0.016 ug/l <b>MW5</b> – Endrin=0.01 ug/l	Pesticides have been detected in monitoring wells at detection limits. Concentrations are indicative of surface application rather than disposal practices. Currently under investigation by DTSC and RWQCB. Possible ecological threat to San Diego Bay.
	San Diego Naval Station	<b>1111-MW4</b> =4,4'-DDD at 0.02 µg/L ; <b>1A1-MW-1</b> =4,4'-DDD at 0.01 µg/L	Ground water monitoring activities will be conducted to determine fluctuations of pesticide concentrations with time across the site. Concentrations detected in ground water to date do not exceed established concentrations that are protective of human health and the environment. Currently under investigation by DTSC and RWQCB.

Table 12. Action taken by the State Water Resources Control Board in FY 2004-2005.

COUNTY	SITE	PESTICIDE	PREVENTION ACTION
<p><b>San Diego, Riverside, and Orange Counties</b></p>	<p>Various GAMA monitoring sites</p>	<p>Pesticides, Herbicides, and Degradates</p>	<p>The GAMA Program has sampled over 550 public supply wells for various chemicals, including pesticides, herbicides and their degradates. Fifty-eight wells were sampled in the San Diego GAMA Study Unit. Out of 122 pesticides, herbicides and degradates analyzed, Simazine, deethylatrazine, prometon, and atrazine were the most frequently detected at maximum concentrations of 0.181, 0.013, 0.03 and 0.85 µg/L respectively. Seventeen other pesticides, herbicides, and degradates were detected (no concentrations were detected above drinking water standards). The San Diego GAMA Study Unit Data Summary Report is available at <a href="http://www.waterboards.ca.gov/gama">www.waterboards.ca.gov/gama</a>.</p>